Listing of the Claims

1. (currently amended) A method of manufacturing an optical waveguide preform, comprising:

forming a preform including a first portion and a second portion, the second portion including a dopant therein, and wherein the first portion exhibits a density greater than the second portion; and

stripping the dopant from at least a section of the second portion during sintering.

- 2. **(original)** The method of claim 1 wherein the dopant stripped from the section originated from dopant migration in a previous step.
- 3. (original) The method of claim 1 wherein the dopant in the second portion comprises fluorine.
- 4. (original) The method of claim 3 wherein the dopant in the second portion comprises an average weight percent of at least 0.3% fluorine substantially throughout the second portion prior to the step of stripping.
- 5. **(original)** The method of claim 4 wherein the step of stripping is accomplished by a stripping agent.
- 6. (**original**) The method of claim 5 wherein the stripping agent comprises a compound including an element selected from a group consisting of VA and VIA in the periodic table of elements.

- 7. (**original**) The method of claim 6 wherein the stripping agent is selected from a group including phosphorous oxychloride, phosphorous trichloride, sulfur oxychloride, antimony, arsenic, chlorides and oxychlorides.
- 8. (original) The method of claim 7 wherein the step of forming the preform body includes doping the first portion with germanium.
- 9. (original) The method of claim 8, further including: applying heat to the first portion prior to forming the second portion, thereby causing at least a portion of the first portion to have a greater density than the second portion.
- 10. (**original**) The method of claim 9 wherein the heat applying step includes heating the first portion with a flame generated utilizing at least one fuel selected from a group including oxygen, methane and oxygen, carbon monoxide and oxygen, deuterium, and hydrogen.
- 11. (original) The method of claim 9 wherein the heat applying step includes heating the first portion with a CO₂ laser.
- 12. (**original**) The method of claim 9 wherein the heat applying step includes heating the first portion with a plasma torch.
- 13. (original) The method of claim 9 wherein the heat applying step is accomplished within the range of from about 1500°C to about 1700°C.

- 14. (**original**) The method of claim 9 wherein the heat applying step includes forming a glass barrier between the first portion and the second portion.
- 15. (original) The method of claim 9 further including:drying the first and second portions with a drying agent.
- 16. (previously presented) The method of claim 15 wherein the drying step includes selecting the drying agent from a group including chlorine, germanium chloride, germanium tetrachloride, silicon tetrachloride, and combinations thereof.
- 17. (original) The method of claim 15 further including:partially sintering the first and second portions prior to the stripping step.
- 18. (**original**) The method of claim 1 wherein the step of stripping is accomplished by a stripping agent that includes an element selected from a group consisting of VA and VIA in the periodic table of elements.
- 19. (original) The method of claim 1, wherein the step of forming the preform body includes doping the first portion with germanium.
- 20. (original) The method of claim 1, further including:
 applying heat to the first portion prior to forming the second portion, thereby causing at least a portion of the first portion to have a greater density than the second portion.
- 21. (original) The method of claim 20, wherein the heat applying step includes forming a glass barrier between the first portion and the second portion.

- 22. (original) The method of claim 21, further including:drying the first and second portions with a drying agent.
- 23. (original) The method of claim 22, further including:
 partially sintering the first and second portions prior to the stripping step.
- 24. (**original**) The method of claim 1 wherein the stripping step includes stripping nearly all of the dopant from a section of the second portion.
- 25. (original) The method of claim 1 wherein the step of stripping includes stripping substantially all migrated dopant from an outer section of the second portion.
- 26. (original) A method of manufacturing an optical fiber preform, comprising: forming a preform including a moat and radial portion abutting the moat, wherein the moat and the radial portion include a fluorine dopant; and stripping substantially all the fluorine dopant from the radial portion.
- 27. (**original**) The method of claim 26 wherein the step of stripping is accomplished by a stripping agent.
- 28. (original) The method of claim 27 wherein the stripping agent comprises a compound including an element selected from a group including VA and VIA in the periodic table of elements.

- 29. (**original**) The method of claim 28 wherein the stripping agent includes selecting the stripping agent from a group including phosphorous oxychloride, phosphorous trichloride, sulfur oxychloride, antimony, arsenic, chlorides and oxychlorides.
- 30. (**original**) The method of claim 29 wherein the preform forming step includes forming the preform to include a core region surrounded by the moat.
- 31. (original) The method of claim 30, further including:

applying heat to the core region prior to forming the moat, thereby causing the core region to have at least a portion exhibiting a greater density than the moat.

- 32. (**original**) The method of claim 31 wherein the heat applying step includes heating the core region with a flame generated utilizing at least one fuel selected from a group including oxygen, methane and oxygen, carbon monoxide and oxygen, deuterium, and hydrogen.
- 33. (original) The method of claim 31 wherein the heat applying step includes heating the core region with a CO₂ laser.
- 34. (original) The method of claim 31 wherein the heat applying step includes heating the core region with a plasma torch.
- 35. (original) The method of claim 31 wherein the heat applying step includes forming a glass barrier between the core region and the moat.

- 36. (**original**) The method of claim 31, further including: drying the preform body with a drying agent.
- 37. (**original**) The method of claim 36 wherein the drying step includes selecting the drying agent from a group including chlorine, germanium chloride, germanium tetrachloride, silicate tetrachloride, and combinations thereof.
- 38. (original) The method of claim 31, further including: partially sintering the preform prior to the stripping step.
- 39. (**original**) The method of claim 26 wherein the step of stripping is accomplished by a stripping agent comprising a compound including an element selected from a group including VA and VIA in the periodic table of elements.
- 40. (**original**) The method of claim 26 wherein the preform body forming step includes forming the preform body to include a core region surrounded by the moat.
- 41. (original) The method of claim 40, further including:

 applying heat to the core region prior to forming the moat, thereby causing the core region to have at least a portion exhibiting a greater density than the moat.
- 42. **(original)** The method of claim 41, further including: drying the preform body with a drying agent.

- 43. (**original**) The method of claim 42, further including: partially sintering the preform body prior to the stripping step.
- 44. (**original**) The method of claim 26 wherein the dopant in the radial portion is provided as a result of migration of the dopant from the moat.
- 45. (new) A method of manufacturing an optical waveguide preform, comprising:

 forming a preform including a first portion and a second portion, the second portion including a fluorine dopant therein, and wherein the first portion exhibits a density greater than the second portion; and

stripping the dopant from at least a section of the second portion wherein the step of stripping is accomplished by a stripping agent comprising a compound including an element selected from a group consisting of VA and VIA in the periodic table of elements.